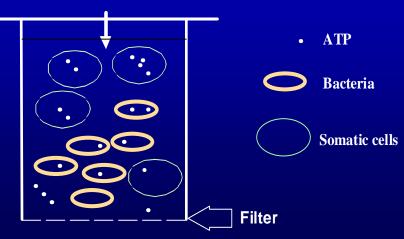
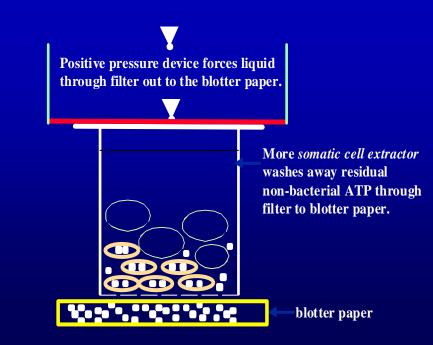
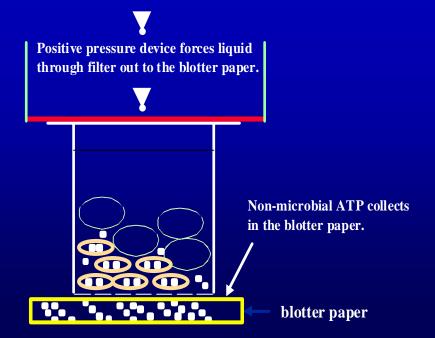


Adding somatic cell extractor releases somatic ATP. Bacterial ATP remains within the bacterial cell envelope.

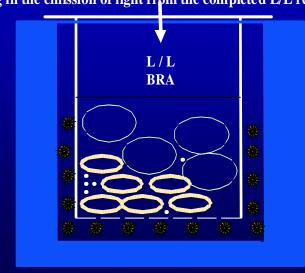






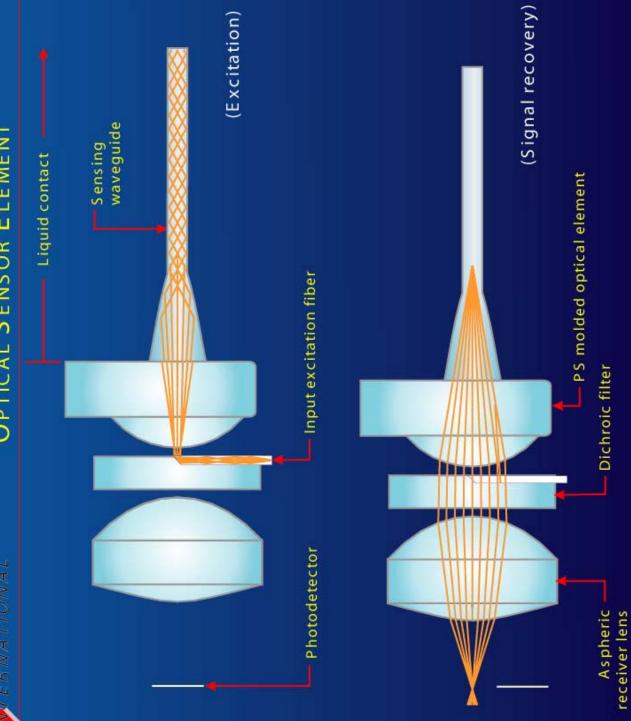


Luciferin / Luciferase (L/L) preparation is added to
Bacterial Releasing Agent,
resulting in the emission of light from the completed L/L reaction.





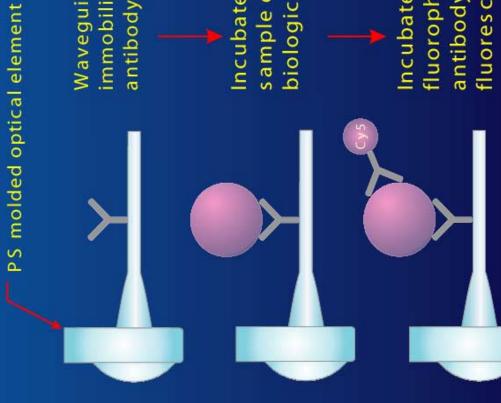
INJECTION-MOLDED OPTICAL SENSOR ELEMENT





STANDARD SANDWICH ASSAY FOR





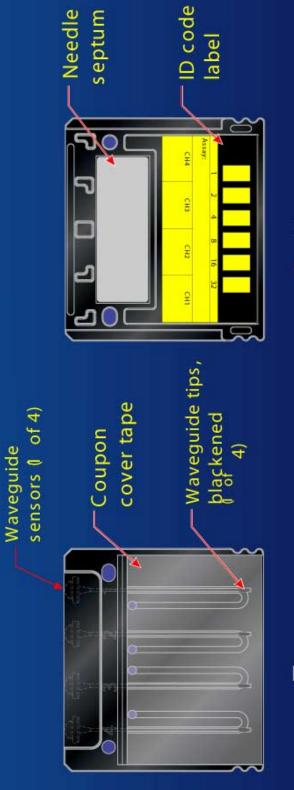
immobilized capture Waveguide with antibody.

sample containing biological agent. Incubate with

fluorescence signal. fluorophore-labeled antibody; measure Incubate with



ASSAY COUPON



Тор

Bottom

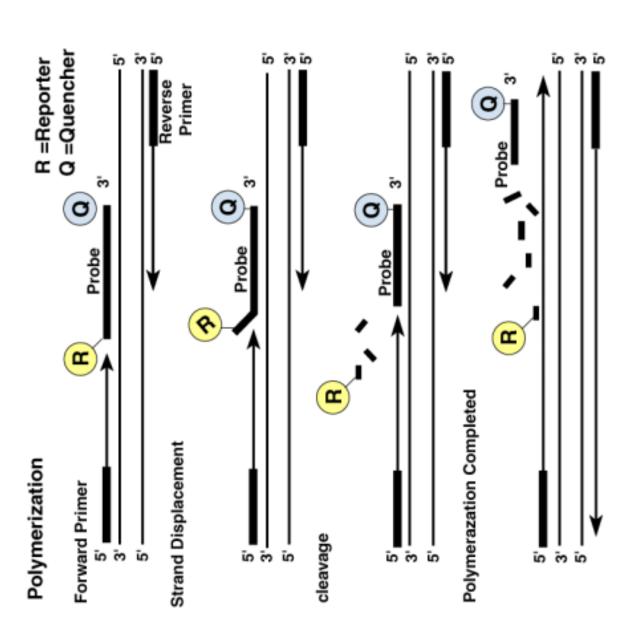
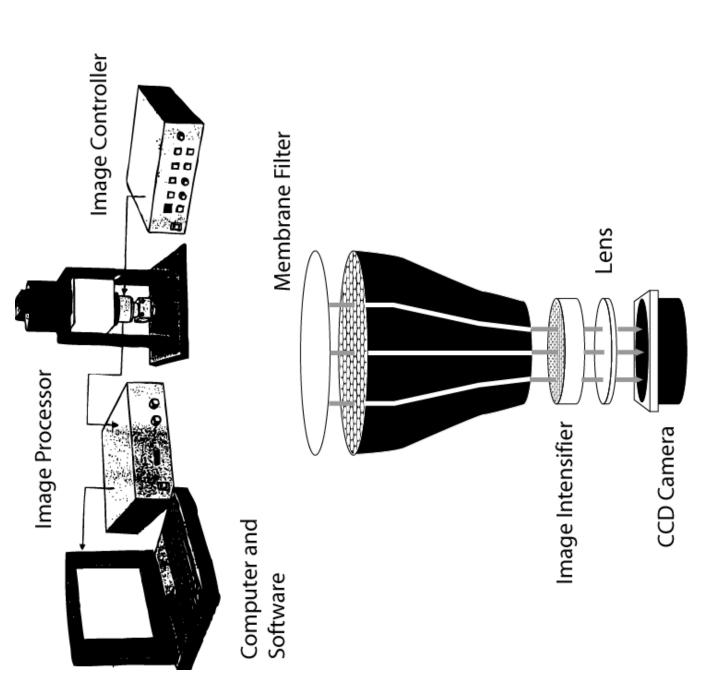


Figure 1. This figure was reproduced from the PE Applied Biosystems "TaqManTM PCR Reagent Kit" protoco



Advantages and Disadvantages of High-technology Methods for Rapid Measurement of Water Quality

Technology	Approach	Limit of Sensitivity	Viable Cells	Cost
Flow Cytometry	Antibodies	1	No	Medium
Bioluminometer	ATP	100 - 1000	Yes	Low
Fiber Optics	Antibodies	1000	No	Medium
Taqman	Molecular	1	No	Medium
CCD camera	ATP	1	Yes	High